<u>Listing of Claims:</u>

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 (Currently Amended) A color image forming apparatus, comprising:

a first image forming device including a first scanning optical device to form a first image and a first developing device to develop the first image into a first color toner image; and

a second image forming device including a second scanning optical device to form a second image and a second developing device to develop the second image into a second color toner image;

wherein each of the first and second optical devices
comprising comprises:

- a light source which emits a light beam;
- a deflector which deflects the light beam so as to scan an image forming surface in a main scanning direction with the light beam;
 - a plurality of lenses provided between the deflector and the image forming surface to focus the deflected light on the image forming surface, wherein each of the plurality of lenses has a length along the main scanning direction; and
 - a lens positioning device to position at least one lens of the plurality of lenses rotatably around an axis parallel

Application No. 10/692,909 Preliminary Amendment

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to the length of the $\underline{at\ least}$ one lens to adjust $\underline{the}\ \underline{a}$ characteristic of a scan line image in an adjustment process, \underline{and}

wherein the <u>a</u> characteristic of the <u>a</u> first scan line image and the <u>a</u> characteristic of the <u>a</u> second scan line image substantially become the same [[,]] when at least one of the <u>lens</u> lenses is rotated around the axis parallel to the length of the lens.

- 2. (Original) The apparatus of claim 1, wherein the deflector includes a polygon mirror.
- 3. (Currently Amended) The apparatus of claim 1, further comprising:

third and fourth image forming devices including respective scanning optical devices and respective developing devices, wherein each of the <u>third and fourth</u> scanning optical devices <u>also</u> comprises the <u>a</u> light source, the <u>a</u> deflector, the <u>a</u> plurality of lenses, and the <u>a</u> lens positioning device.

- 4. (Currently Amended) The apparatus of claim 1, wherein one $\underline{\text{lens}}$ of the plurality of lenses $\underline{\text{is a f}}$ $\underline{\text{comprises an } f\theta}$ lens.
- 5. (Currently Amended) The apparatus of claim 1, wherein one lens of the plurality of lenses is comprises a cylindrical lens.

Application No. 10/692,909 Preliminary Amendment

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Customer No. 01933

- 6. (Currently Amended) The apparatus of claim 1, wherein the plurality of lenses comprise a f comprises an $f\theta$ lens and a cylindrical lens.
- 7. (Currently Amended) The apparatus of claim 6, wherein the positioning device allows the cylindrical lens being to be rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.
- 8. (Currently Amended) The apparatus of claim 6, wherein the positioning device of each of the first scanning device and the second scanning device comprises two mechanisms to allow the f $f\theta$ lens and the cylindrical lens being to be rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.
- 9. (Currently Amended) The apparatus of claim 1, wherein the <u>at least</u> one <u>rotatable</u> lens is positioned closest to the image forming surface among the plurality of lenses.

Application No. 10/692,909 Preliminary Amendment

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- 10. (Currently Amended) The apparatus of claim 1, wherein the characteristic of the <u>first scan line</u> image <u>and the</u> characteristic of the <u>second scan line image</u> is a straight line.
- 11. (Currently Amended) The apparatus of claim 1, further comprising:

an adjustment device adjusting to adjust at least one of the first and second scanning optical devices so that the scanned images formed by the first and second image forming devices are superposed on a recording sheet.

12. (Currently Amended) The apparatus of claim 3, further comprising:

an adjustment device adjusting to adjust at least one of the first, second, third and fourth scanning optical devices so that the scanned images formed by the first, second, third and fourth scanning optical device [and the image of the second one] devices are superposed on a recording sheet.

13. (Currently Amended) The apparatus of claim 1, wherein the image forming surface is comprises a surface of a common image bearing member.

- 14. (Currently Amended) The apparatus of claim 1, wherein the positioning device of each of the first and second optical devices allows the respective <u>at least</u> one <u>rotatable lens being lenses to be rotatable so as to make deviations between the respective line <u>image images</u> and the desired line smaller than $200 \text{ m} \text{ } \mu\text{m}$.</u>
- 15.(Currently Amended) The apparatus of claim 14, wherein the deviations are made smaller than 120 $\frac{1}{100}$ $\frac{1}{100}$.
- 16. (Currently Amended) The apparatus of claim 1, wherein the positioning device of each of the first and second optical device allows the respective at least one rotatable lens being lenses to be rotatable so as to make the respective line image images to become a desired line.
- 17. (Currently Amended) The apparatus of claim 1, wherein each of the first and second images is comprises a line image and the characteristic of the image is the comprises a shape of the line image.
- 18. (Currently Amended) A scanning optical system for use in a color image forming apparatus comprising:

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first and second scanning optical devices scanning to scan in a main scanning direction with a light beam so that each of the devices form forms an image on an image forming surface,

wherein each of the first and second scanning optical
devices comprising comprises:

- a light source which emits a light beam;
- a deflector which deflects the light beam in the main scanning direction;
 - a plurality of lenses, provided between the deflector and the image forming surface, which focus the deflected light beam on the image forming surface, wherein each of the lenses has a length along the main scanning direction; and
 - a lens positioning device to position at least one lens of the plurality of lenses ratatably rotatably around an axis parallel to the length of the <u>at least</u> one lens to adjust the characteristic of a scan line image in an adjustment process, <u>and</u>

wherein the <u>a</u> characteristic of the <u>a</u> first scan line image and the <u>a</u> characteristic of the <u>a</u> second scan line image substantially become the same [[,]] when the at least one of the lens lenses is rotated around the axis parallel to the length of the lens.

19. (Currently Amended) The apparatus system of claim 18, wherein the deflector includes a polygon mirror.

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20. (Currently Amended) The apparatus system of claim 18, further comprising:

third and fourth scanning optical devices [[,]] each of the third and fourth scanning optical devices also comprising the a light source, the a deflector, the a plurality of lenses, and a positioning device.

- 21. (Currently Amended) The apparatus system of claim 18, wherein one lens of the plurality of lenses is a f comprises an $\underline{f\theta}$ lens.
- 22. (Currently Amended) The apparatus system of claim 18, wherein one lens of the plurality of lenses is comprises a cylindrical lens.
- 23. (Currently Amended) The apparatus system of claim 18, wherein the plurality of lenses comprise a f comprises an $f\theta$ lens and a cylindrical lens.
- 24. (Currently Amended) The apparatus system of claim 23, wherein the positioning device allows the cylindrical lens being to be rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.

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- 25. (Currently Amended) The apparatus system of Claim 23, wherein the positioning device of each of the first scanning device and the second scanning device comprises two mechanisms to allow the f $f\theta$ lens and the cylindrical lens being to be rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.
- 26. (Currently Amended) The apparatus system of claim 18, wherein the at least one rotatable lens is positioned closest to the image forming surface among the plurality of lenses.
- 27. (Currently Amended) The apparatus system of claim 18, wherein the characteristic of the <u>first</u> scan line <u>image</u> and the <u>characteristic of the second scan line image</u> is a straight line.
- 28. (Currently Amended) The apparatus system of claim 18, further comprising:

an adjustment device adjusting to adjust at least one of the first and second scanning optical devices so that the scanned images formed by the first and second scanning optical devices are superposed on the recording sheet.

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29. (Currently Amended) The apparatus system of claim 20, further comprising:

an adjustment device adjusting to adjust at least one of the first, second, third and fourth scanning optical devices so that the scanned images formed by the first, second, third and fourth scanning optical devices are superposed on the recording sheet

- 30. (Currently Amended) The apparatus system of claim 18, wherein the image forming surface is comprises a surface of a common image bearing member.
- 31. (Currently Amended) The apparatus system of claim 18, wherein the positioning device of each of the first and second optical devices allows the respective at least one rotatable lens being lenses to be rotatable so as to make deviations between the respective line image and the desired line smaller than 200 m um.
- 32. (Currently Amended) The apparatus system of Claim 31, wherein the deviations are made smaller than 120 m μm .
- 33. (Currently Amended) The apparatus system of claim 18, wherein the positioning device of each of the first and second optical device devices allows the respective at least one

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rotatable lens being lenses to be rotatable so as to make the respective line image images to become a desired line.

- 34. (Currently Amended) The apparatus system of claim 18, wherein each of the first and second images is comprises a line image and the characteristic of the image is the comprises a shape of the line image.
- 35. (Currently Amended) A color image forming apparatus including a developing device for <u>forming a</u> color toner image, comprising:

first and second scanning optical devices scanning to

scan in a main scanning direction with a light beam so that each
of the devices form forms an image on an image forming surface,

wherein each of the first and second scanning optical
devices comprising comprises:

- a light source which emits a light beam;
- a deflector which deflects the light beam in the main scanning direction;
- a plurality of lenses, provided between the deflector and the image forming surface, which focus the deflected light beam on the image forming surface, wherein each of the lenses has a length along the main scanning direction; and
- a lens positioning device to position at least one lens of the plurality of lenses rotatably around an axis parallel to

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the length of the <u>at least</u> one lens to adjust the characteristic of a scan line image in an adjustment process, <u>and</u>

wherein the <u>a</u> characteristic of the <u>a</u> first scan line image and the <u>a</u> characteristic of the <u>a</u> second scan line image substantially become the same [[,]] when at least one of the <u>lens</u> lenses is rotated around the axis parallel to the length of the lens.

- 36. (Original) The apparatus of claim 35, wherein the deflector includes a polygon mirror.
- 37. (Currently Amended) The apparatus of claim 35, further comprising:

third and fourth scanning optical devices [[,]] each of the third and fourth scanning optical devices also comprising the \underline{a} light source, the \underline{a} deflector, the \underline{a} plurality of lenses, and \underline{a} positioning device.

- 38. (Currently Amended) The apparatus of claim 35, wherein one <u>lens</u> of the plurality of lenses is a f comprises an $f\theta$ lens.
- 39. (Currently Amended) The apparatus of claim 35, wherein one <u>lens</u> of the plurality of lenses <u>is comprises</u> a cylindrical lens.

- 40. (Currently Amended) The apparatus of claim 35, wherein the plurality of lenses comprise a f comprises an $f\theta$ lens and a cylindrical lens.
- 41. (Currently Amended) The apparatus of claim 40, wherein the positioning device allows the cylindrical lens being to be rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.
- 42. (Currently Amended) The apparatus of Claim 40, wherein the positioning device of each of the first scanning device and the second scanning device comprises two mechanisms to allow the f 10 lens and the cylindrical lens being to be rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.
- 43. (Currently Amended) The apparatus of claim 35, wherein the <u>at least</u> one <u>rotatable</u> lens is positioned closest to the image forming surface among the plurality of lenses.

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- 44. (Currently Amended) The apparatus of claim 35, wherein the characteristic of the <u>first</u> scan line <u>image and the</u>

 <u>characteristic of the second scan line image is comprises</u> a straight line.
- 45. (Currently Amended) The apparatus of claim 35, further comprising:

an adjustment device adjusting to adjust at least one of the first and second scanning optical devices so that the scanned images formed by the first and second scanning optical devices are superposed on the recording sheet.

46. (Currently Amended) The apparatus of claim 37, further comprising:

an adjustment device adjusting to adjust at least one of the first, second, third and fourth scanning optical devices so that the scanned images formed by the first, second, third and fourth scanning optical devices are superposed on the recording sheet.

47. (Currently Amended) The apparatus of claim 35, wherein the image forming surface is comprises a surface of a common image bearing member.

- 48. (Currently Amended) The apparatus of claim 35, wherein the positioning device of each of the first and second optical devices allows the respective at least one rotatable lens being lenses to be rotatable so as to make deviations between the respective line image images and the desired line smaller than 200 m µm.
- 49. (Currently Amended) The apparatus of Claim 48, wherein the deviations are made smaller than 120 m μm .
- 50. (Currently Amended) The apparatus of claim 35, wherein the positioning device of each of the first and second optical device allows the respective at least one rotatable lens being lenses to be rotatable so as to make the respective line image images to become a desired line.
- 51. (Currently Amended) The apparatus of claim 35, wherein each of the first and second images is comprises a line image and the characteristic of the image is the comprises a shape of the line image.
- 52. (New) A color image forming apparatus, comprising:
 a first image forming device including a first scanning
 optical device to form a first image and a first developing

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device to develop the first image into a first color toner image; and

a second image forming device including a second scanning optical device to form a second image and a second developing device to develop the second image into a second color toner image;

wherein each of the first and second optical devices comprises:

a light source which emits a light beam;

a deflector which deflects the light beam so as to scan an image forming surface in a main scanning direction with the light beam; and

a plurality of lenses provided between the deflector and the image forming surface to focus the deflected light on the image forming surface, wherein each of the plurality of lenses has a length along the main scanning direction;

wherein at least one lens of the plurality of lenses of the first optical device is rotatable around an axis parallel to the length of the at least one rotatable lens to adjust a characteristic of a first scan line image prior to fixing a position of the rotatable lens; and

wherein the characteristic of the first scan line image and a characteristic of a second scan line image become substantially the same when at least one of the lenses of the first optical

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device is rotated around the axis parallel to the length of the lens.

- 53. (New) The apparatus of claim 52, wherein at least one lens of the plurality of lenses of the second optical device is rotatable around an axis parallel to the length of the at least one lens to adjust the characteristic of the second scan line image prior to fixing a position of the rotatable lens of the second optical device.
- 54. (New) The apparatus of claim 52, further comprising: third and fourth image forming devices including respective scanning optical devices and respective developing devices,

wherein each of the third and fourth scanning optical devices also comprises a light source, a deflector and a plurality of lenses, and

wherein at least one lens of the plurality of lenses of the second optical device, the third optical device and the fourth optical device are rotatable around an axis parallel to the length of each lens to adjust a characteristic of the second scan line image, a third scan line image, and a fourth scan line image prior to fixing a position of each rotatable lens.

- 55. (New) The apparatus of claim 54, further comprising: an adjustment device to adjust at least one of the first, second, third and fourth scanning optical devices so that the scanned images formed by the first, second, third and fourth scanning optical devices are superposed on a recording sheet.
- 56. (New) The apparatus of claim 52, wherein the deflector includes a polygon mirror.
- 57. (New) The apparatus of claim 52, wherein one lens of the plurality of lenses comprises an $f\theta$ lens.
- 58. (New) The apparatus of claim 52, wherein one lens of the plurality of lenses comprises a cylindrical lens.
- 59. (New) The apparatus of claim 52, wherein the plurality of lenses comprises an θ lens and a cylindrical lens.
- 60. (New) The apparatus of claim 59, wherein the cylindrical lens of the first scanning optical device is rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.

- 61. (New) The apparatus of Claim 59, wherein the $f\theta$ lens and the cylindrical lens are rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.
- 62. (New) The apparatus of claim 52, wherein the rotatable lens is positioned closest to the image forming surface among the plurality of lenses.
- 63. (New) The apparatus of claim 52, wherein the characteristic of the first scan line image and the characteristic of the second scan line image is a straight line.
- 64. (New) The apparatus of claim 52, further comprising:

 an adjustment device to adjust at least one of the first and second scanning optical devices so that the scanned images formed by the first and second image forming devices are superposed on a recording sheet.
- 65. (New) The apparatus of claim 52, wherein the image forming surface comprises a surface of a common image bearing member.

- 66. (New) The apparatus of claim 52, wherein the first scanning optical device forms the first image on a surface of a first image bearing member, and the second scanning optical device forms the second image on a surface of a second image bearing member.
- 67. (New) The apparatus of claim 52, wherein a deviation between the first scan line image and a desired line image is smaller than 200 μ m when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 68. (New) The apparatus of claim 67, wherein the deviation is made smaller than 120 $\mu\text{m}.$
- 69. (New) The apparatus of claim 52, wherein the first scan line image becomes a desired line image when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 70. (New) The apparatus of claim 52, wherein each of the first and second images comprises a line image and the characteristic of the image comprises a shape of the line image.

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71. (New) A scanning optical system for use in a color image forming apparatus comprising:

first and second scanning optical devices to scan in a main scanning direction with a light beam so that each of the devices forms an image on an image forming surface;

wherein each of the first and second scanning optical devices comprises:

a light source which emits a light beam;

a deflector which deflects the light beam so as to scan an image forming surface in a main scanning direction; and

a plurality of lenses, provided between the deflector and the image forming surface, which focus the deflected light beam on the image forming surface, wherein each of the plurality of lenses has a length along the main scanning direction;

wherein at least one lens of the plurality of lenses of the first optical device is rotatable around an axis parallel to the length of the one lens to adjust a characteristic of a first scan line image prior to fixing a position of the rotatable lens; and

wherein the characteristic of the first scan line image and a characteristic of a second scan line image become substantially the same when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.

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- 72. (New) The system of claim 71, wherein at least one lens of the plurality of lenses of the second optical device is rotatable around an axis parallel to the length of the at least one lens to adjust a characteristic of the second scan line image prior to fixing a position of the rotatable lens.
- 73. (New) The system of claim 71, further comprising:
 third and fourth image forming devices including respective
 scanning optical devices and respective developing devices,

wherein each of the third and fourth scanning optical devices also comprises a light source, a deflector and a plurality of lenses, and

wherein at least one lens of the plurality of lenses of the second optical device, the third optical device and the fourth optical device are rotatable around an axis parallel to the length of each lens to adjust a characteristic of the second scan line image, a third scan line image, and a fourth scan line image prior to fixing a position of each rotatable lens.

74. (New) The system of claim 73, further comprising:
an adjustment device to adjust at least one of the first,
second, third and fourth scanning optical devices so that the
scanned images formed by the first, second, third and fourth
scanning optical devices are superposed on a recording sheet.

- 75. (New) The system of claim 71, wherein the deflector includes a polygon mirror.
- 76. (New) The system of claim 71, wherein one lens of the plurality of lenses comprises an $f\theta$ lens.
- 77. (New) The system of claim 71, wherein one lens of the plurality of lenses comprises a cylindrical lens.
- 78. (New) The system of claim 71, wherein the plurality of lenses comprises an $f\theta$ lens and a cylindrical lens.
- 79. (New) The system of claim 78, wherein the cylindrical lens of the first scanning optical device is rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.
- 80. (New) The system of Claim 78, wherein the $f\theta$ lens and the cylindrical lens are rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.

- 81. (New) The system of claim 71, wherein the rotatable lens is positioned closest to the image forming surface among the plurality of lenses.
- 82. (New) The system of claim 71, wherein the characteristic of the first scan line image and the characteristic of the second scan line image is a straight line.
- 83. (New) The system of claim 71, further comprising:
 an adjustment device to adjust at least one of the first and
 second scanning optical devices so that the scanned images formed
 by the first and second image forming devices are superposed on a
 recording sheet.
- 84. (New) The system of claim 71, wherein the image forming surface comprises a surface of a common image bearing member.
- 85. (New) The system of claim 71, wherein the first scanning optical device forms the first image on a surface of a first image bearing member, and the second scanning optical device forms the second image on a surface of a second image bearing member.

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- 86. (New) The system of claim 71, wherein a deviation between the first scan line image and a desired line image is smaller than 200 μ m when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 87. (New) The system of claim 86, wherein the deviation is made smaller than 120 μm_{\odot}
- 88. (New) The system of claim 71, wherein the first scan line image becomes a desired line image when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 89. (New) The system of claim 71, wherein each of the first and second images comprises a line image and the characteristic of the image comprises a shape of the line image.
- 90. (New) A color image forming apparatus including a developing device for forming a color toner image, comprising:

first and second scanning optical devices to scan in a main scanning direction with a light beam so that each of the devices forms an image on an image forming surface,

wherein each of the first and second scanning optical devices comprises:

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- a light source which emits a light beam;
- a deflector which deflects the light beam so as to scan an image forming surface in a main scanning direction; and
- a plurality of lenses, provided between the deflector and the image forming surface, which focus the deflected light beam on the image forming surface, wherein each of the plurality of lenses has a length along the main scanning direction;

wherein at least one lens of the plurality of lenses of the first optical device is rotatable around an axis parallel to the length of the one lens to adjust a characteristic of a first scan line image prior to fixing a position of the rotatable lens; and

wherein the characteristic of the first scan line image and a characteristic of a second scan line image become substantially the same when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.

- 91. (New) The apparatus of claim 90, wherein at least one lens of the plurality of lenses of the second optical device is rotatable around an axis parallel to the length of the at least one lens to adjust a characteristic of the second scan line image prior to fixing a position of the rotatable lens.
 - 92. (New) The apparatus of claim 90, further comprising:

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third and fourth image forming devices including respective scanning optical devices and respective developing devices,

wherein each of the third and fourth scanning optical devices also comprises a light source, a deflector and a plurality of lenses, and

wherein at least one lens of the plurality of lenses of the second optical device, the third optical device and the fourth optical device are rotatable around an axis parallel to the length of each lens to adjust a characteristic of the second scan line image, a third scan line image, and a fourth scan line image prior to fixing a position of each rotatable lens.

- 93. (New) The apparatus of claim 92, further comprising: an adjustment device to adjust at least one of the first, second, third and fourth scanning optical devices so that the scanned images formed by the first, second, third and fourth scanning optical devices are superposed on a recording sheet.
- 94. (New) The apparatus of claim 90, wherein the deflector includes a polygon mirror.
- 95. (New) The apparatus of claim 90, wherein one lens of the plurality of lenses comprises an $f\theta$ lens.

- 96. (New) The apparatus of claim 90, wherein one lens of the plurality of lenses comprises a cylindrical lens.
- 97. (New) The apparatus of claim 90, wherein the plurality of lenses comprises an $f\theta$ lens and a cylindrical lens.
- 98. (New) The apparatus of claim 97, wherein the cylindrical lens of the first scanning optical device is rotatable around an axis parallel to the length of the cylindrical lens so as to scan a straight line on the image forming surface.
- 99. (New) The apparatus of Claim 97, wherein the $f\theta$ lens and the cylindrical lens are rotatable around an axis parallel to the length of each lens respectively so that the deflected light scans a straight line on the image forming surface.
- 100. (New) The apparatus of claim 90, wherein the rotatable lens is positioned closest to the image forming surface among the plurality of lenses.
- 101. (New) The apparatus of claim 90, wherein the characteristic of the first scan line image and the characteristic of the second scan line image is a straight line.

- 102. (New) The apparatus of claim 90, further comprising:
 an adjustment device to adjust at least one of the first and
 second scanning optical devices so that the scanned images formed
 by the first and second image forming devices are superposed on a
 recording sheet.
- 103. (New) The apparatus of claim 90, wherein the image forming surface comprises a surface of a common image bearing member.
- 104. (New) The apparatus of claim 90, wherein the first scanning optical device forms the first image on a surface of a first image bearing member, and the second scanning optical device forms the second image on a surface of a second image bearing member.
- 105. (New) The apparatus of claim 90, wherein a deviation between the first scan line image and a desired line image is smaller than 200 μ m when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 106. (New) The apparatus of claim 105, wherein the deviation is made smaller than 120 um.

- 107. (New) The apparatus of claim 90, wherein the first scan line image becomes a desired line image when at least one of the lenses of the first optical device is rotated around the axis parallel to the length of the lens.
- 108. (New) The apparatus of claim 90, wherein each of the first and second images comprises a line image and the characteristic of the image comprises a shape of the line image.